

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-3. (Canceled)

4. (Currently Amended) The method of claim ~~[[3]]~~ 6 wherein the extracting further comprises decomposing the affine transform into a translation and a linear transform matrix.

5. (Canceled)

6. (Currently Amended) ~~The method of claim 3 wherein~~ A method comprising:

in response to user action on a canvas, selecting at least one area of a first image which relates to an area on a distortion grid;

using a plurality of points local to the at least one area to calculate a distortion;

extracting a rotation component of the distortion, wherein the extracting comprises calculating an affine transform from the plurality of points, the extraction of rotation comprises comprising calculating an angle from the elements of a linear transform matrix; and applying the rotation component to a second area of the first image.

7. (Currently Amended) ~~The method of claim 3 wherein~~ A method comprising:

in response to user action on a canvas, selecting at least one area of a first image which relates to an area on a distortion grid;

using a plurality of points local to the at least one area to calculate a distortion;

extracting a scaling component of the distortion, wherein the extracting comprises calculating an affine transform from the plurality of points, the extraction of scaling comprises comprising calculating a pair of eigenvalues of a linear transform matrix, ~~[[and]]~~ wherein each eigenvalue represents the amount of scaling in a direction represented by a corresponding projection matrix; and

applying the scaling component to a second area of the first image.

8. (Previously Presented) The method of claim 7 wherein a rotation is removed from the linear transform matrix prior to calculating the pair of eigenvalues.

9. (Previously Presented) The method of claim 7 wherein a skew is removed from the linear transform matrix prior to calculating the pair of eigenvalues.

10. (Currently Amended) The method of claim ~~[[1]]~~ 6 wherein a user selects the rotation ~~at least one~~ component.

11. (Currently Amended) The method of claim 10 wherein the user selects the rotation ~~at least one~~ component from a menu displayed on a user interface.

12. (Currently Amended) The method of claim ~~[[1]]~~ 6 wherein a user selects the area for the applying by the location of a virtual brush.

13. (Currently Amended) The method of claim ~~[[1]]~~ 6 wherein the applying is to an entire image.

14. (Currently Amended) ~~The method of claim 1~~ A method comprising:
in response to user action on a canvas, selecting at least one area of a first image which
relates to an area on a distortion grid;
using a plurality of points local to the at least one area to calculate a distortion;
extracting at least one component of the distortion;
applying the at least one component to a second area of the first image; and
~~wherein the~~ applying the at least one component ~~[[is]]~~ to a second image.

15. (Previously Presented) The method of claim 14 wherein the second image is different from the first image.

16-20. (Canceled)

21. (Currently Amended) ~~The computer program product of claim 19~~ A computer program product, disposed in a computer readable medium, having instructions to cause a computer to:
using a plurality of points surrounding a first area of an image related to an area in a distortion grid, calculate an angular rotation amount of a distortion at the first area;
calculate an affine transform from the plurality of points;
decompose the affine transform into a translation and a linear transform matrix and
calculate an angle from the elements of the linear transform matrix; and
apply the angular rotation amount of the distortion to a second area of the image wherein
~~the at least one component of the distortion is an angular rotation amount, and the instructions to~~
~~cause the computer to decompose the affine transformation further comprise instructions to~~
~~calculate an angle from the elements of the linear transform matrix.~~

22. (Currently Amended) ~~The computer program product of claim 19~~ A computer program product, disposed in a computer readable medium, having instructions to cause a computer to:
using a plurality of points surrounding a first area of an image related to an area in a distortion grid, calculate a scaling amount of a distortion at the first area;
calculate an affine transform from the plurality of points,
decompose the affine transform into a translation and a linear transform matrix and
calculate a pair of eigenvalues of the linear transform matrix, and wherein each eigenvalue
represents the amount of scaling in a direction represented by a corresponding projection matrix;
and
apply the scaling amount of the distortion to a second area of the image wherein the at
~~least one component of the distortion is a scaling amount, and the instructions to cause the~~
~~computer to decompose the affine transformation further comprise instructions to calculate a pair~~
~~of eigenvalues of the linear transform matrix, and wherein each eigenvalue represents the amount~~
~~of scaling in a direction represented by a corresponding projection matrix.~~

23. (Previously Presented) The computer program product of claim 22 wherein rotation is removed from the linear transform matrix prior to calculating the pair of eigenvalues.

24. (Previously Presented) The computer program product of claim 22 wherein skew is removed from the linear transform matrix prior to calculating the pair of eigenvalues.

25. (Currently Amended) The computer program product of claim [[16]] 21 wherein a user selects the ~~at least one component~~ angular rotation amount.

26. (Currently Amended) The computer program product of claim 25 wherein the user selects the ~~at least one component~~ angular rotation amount from a menu displayed on a user interface.

27. (Currently Amended) The computer program product of claim [[16]] 21 wherein the area for the applying is selected by a user, responsive to the movement of a virtual brush.

28. (Currently Amended) The computer program product of claim [[16]] 21 wherein the ~~component~~ angular rotation amount is applied to an entire image.

29. (Currently Amended) ~~The computer program product of claim 16 wherein the~~ A computer program product, disposed in a computer readable medium, having instructions to cause a computer to:

using a plurality of points surrounding a first area of an image related to an area in a distortion grid, calculate at least one component of a distortion at the first area; and
apply the at least one component of the distortion to a second area of the image; and
apply the at least one component of the distortion ~~is applied~~ to a second image.

30. (Currently Amended) The computer program product of claim [[16]] 29 wherein the second image is different from the first image.

31-37. (Canceled)

38. (Currently Amended) ~~The computer program product of claim 31 wherein the~~ A computer program product having instructions stored in a computer readable medium, containing instructions to cause a computer to:

display a first image on a canvas, the first image being related to an area on a distortion grid;

responsive to an input device controlled by a user, select an area of the first image;

responsive to a selection by the user from a menu, extract at least one component of a distortion from the area;

responsive to movement and location of a cursor controlled by the user, apply the at least one component to a second area of the first image; and

responsive to movement and location of a cursor controlled by the user, apply the at least one component is applied to a second image.

39. (Currently Amended) The computer program product of claim [[31]] 38 wherein the second image is different from the first image.

40. (New) The method of claim 7 wherein the extracting further comprises decomposing the affine transform into a translation and a linear transform matrix.

41. (New) The method of claim 7 wherein a user selects the scaling component.

42. (New) The method of claim 7 wherein a user selects the area for the applying by the location of a virtual brush.

- 43. (New) The method of claim 7 wherein the applying is to an entire image.
- 44. (New) The computer program product of claim 22 wherein a user selects the scaling amount.
- 45. (New) The computer program product of claim 22 wherein the area for the applying is selected by a user, responsive to the movement of a virtual brush.
- 46. (New) The computer program product of claim 22 wherein the scaling amount is applied to an entire image.